

# Notice of Allowability

Application No.

10/698,440

Examiner

Sean E. Conley

Applicant(s)

YUEN, SE KIT

Art Unit

1744

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/20/2006.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Amendment***

1. The amendment filed July 20, 2006 has been received and considered for examination. Claims 1-3 are pending.

### ***Allowable Subject Matter***

2. Claims 1-3 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art, alone or in combination, fails to teach or fairly suggest the applicants claimed invention as recited in claims 1-3.

Regarding claim 1, the prior art fails to teach or fairly suggest a cylindrical optoelectronic air cleaner comprising an air collecting device being disposed between the air inlet and the draft fan, said air collecting device comprising a plurality of parallel stripe-like gridirons disposed in the direction of the air flow and extending from said input grid toward said draft fan; and the outer spectrum ultraviolet ray tube being disposed at the center interior of the air collecting device between the draft fan and the stripe-like gridirons and shielded against viewing by the user. This is an improvement over the prior art because the stripe-like gridirons permit the air to move effectively on both sides of the air-collecting device and then proceed to the air input ports disposed between the ultraviolet tube and the air collecting walls.

Regarding claim 3, the prior art fails to teach or fairly suggest a cylindrical optoelectronic air cleaner comprising a main body provided with a supporting frame and a fixing protection cover connected to the top end of the supporting frame, an electronic converter being provided on the top end of the protection cover and a power supply electronic generator and a transformer being provided within the protection cover.

The closest prior art to the applicants claimed invention is Yuen et al. (GB 2301179 A), Taylor et al. (U.S. Patent No. 6,911,186 B2), and Hak (U.S. Patent No. 6,494,940).

Yuen et al. discloses a portable photoelectric air cleaner comprising: a main body (cover (24) with base (22)) of pyramidal shape, the main body having an interior portion, the interior portion including an extractor fan (36) disposed at an angle to the flat base and orthogonal to the direction of air flow at the air outlet (located at air outlet grill (14)), a transformer (44), a circuit board (42), an ultraviolet ray tube (32) which includes ultraviolet light in the UVA, UVB, and UVC range and the tube (32) being located within the interior portion of the air cleaner and proximate to the air outlet, a cathode high voltage discharge fiber thread (40) fixed to a front face of the air outlet exhaust grid (14), and an air collector (filter holder (26)) formed within the interior portion between the air inlet (located at filter cover (30)) and the radiation tube (32). The extractor fan (36) is disposed between the ultraviolet radiation tube (32) and the air outlet portion (grid (14)). The air collector is comprised of a space which is defined by an air collecting wall (wall containing air holes in filter holder (26)) and a blocking wall (sidewalls of filter holder (26)) (see figure 2; page 4, line 8 to page 5, line 27).

Taylor et al. discloses an air purification device for removing particles from an air by subjecting an airflow to ultraviolet radiation from a germicidal lamp within the device. The device comprises a housing that is cylindrical in shape (see figures 2A-4; abstract).

Hak discloses a portable air purifier (10) that includes a housing (12) having an ultraviolet chamber (18) for collecting and treating the airflow passing through the device. Within the ultraviolet chamber (18) is an ultraviolet lamp (88) and a wall of chamber (18) includes a shield (102) is supported above the lamp (88) and functions to direct the ultraviolet light away from the outlet grille (106) of the air purifier (10) (see figure 7; col. 4, lines 55-65; col. 6, line 66 to col. 7, line 35).

However, none of the cited prior art teaches or makes obvious all of the claimed limitations as recited in claims 1-3 and therefore claims 1-3 are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E. Conley whose telephone number is 571-272-8414. The examiner can normally be reached on M-F 8:30-5:00.

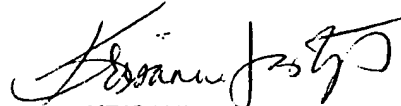
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on 571-272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 30, 2006

  
KRISANNE JASTRZAB  
PRIMARY EXAMINER